Application Number 10580917 Filing Date 2006-05-30 First Named Inventor Mingyao XU Art Unit 3744 Examiner Name Attorney Docket Number ISHI 20.887

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	1	3119237		1964-01-28	GIFFORD	Cited on p.1 of specifica	tion	
	2	3205668		1965-09-14 GIFFORD		Cited on p.1 of specification		
	3	3620029	1971-11-16 LONGSWORTH Cited on p.		Cited on p.1 of specifica	tion		
	4	3625015		1971-12-07	CHELLIS	Cited on p.1 of specification		
	5	4987743				Cited on p.1 of specifica	tion	
	6	3237421				Cited on p.2 of specifica	tion	
	7	6256998		2001-07-10	GAO	Cited on p.3 of specifica	tion	
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	1	E.I. MIKULIN et al., "Low temperature expansion pulse tubes", Advances in Cryogenic Engineering, Vol. 29, 1984, p.629-637									
	2	S. ZHU et al., "Double inlet pulse tube refrigerators: an important improvement", Cryogenics, Vol. 30, 1990, p.514-520									
	3	Y. MATSUBARA et al., "An experimental and analytical investigation of 4 K pulse tube refrigerator", Proceedings of the 7th International Cryocooler Conference, Air Force Report PL-CP-93-1001, 1993, p.166-186									
	4	S.W. ZHU et al., "Active-buffer pulse tube refrigerator", Proceedings of the 16th Cryogenic Engineering Conference, 1996, p.291-294									
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	5	J. YUAN et al., "A single stage five valve pulse tube refrigerator reaching 32 K", Advances in Cryogenic Engineering, Vol. 43, Plenum Press, New York, 1998, p. 1983-1989							
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